SRNT

Schreiber, David

114952

From: Steadman, David (AU1652)
Sent: Friday, February 20, 2004 1:04 PM
To: Schreiber, David
Subject: 10/089,211 sequence alignment request

NAME: David Steadman
AU: 1652
Date:02/20/04
Office: Remsen 3B85
Mailbox: Remsen 3C70

Mr. Schreiber, please align the following sequences:

SEQ ID NO:17 (nucleic acid) with SEQ ID NO:18 (polypeptide)

Please save results to diskette.

Thank you very much.

David J. Steadman, Ph.D.
Patent Examiner
Art Unit 1652 - Recombinant Enzymes
Remsen, 3B85
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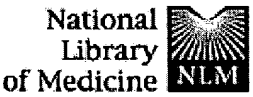

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Clear History

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IUBMB Enzyme Nomenclature

EC 3.2.1.113

Common name: mannosyl-oligosaccharide 1,2-α-mannosidase

Reaction: Hydrolysis of the terminal 1,2-linked α-D-mannose residues in the oligo-mannose oligosaccharide $Man_9(GlcNAc)_2$

Other name(s): mannosidase 1A; mannosidase 1B; 1,2-α-mannosidase; exo-α-1,2-mannanase; mannose-9 processing α-mannosidase; glycoprotein processing mannosidase I; mannosidase I; Man9-mannosidase

Systematic name: 1,2-α-mannosyl-oligosaccharide α-D-mannohydrolase

Comments: Involved in the synthesis of glycoproteins.

Links to other databases: BRENDA, EXPASY, KEGG, WIT, CAS registry number: 9068-25-1

References:

1. Tabas, I. and Kornfeld, S. Purification and characterization of a rat liver Golgi α-mannosidase capable of processing asparagine-linked oligosaccharides. *J. Biol. Chem.* 254 (1979) 11655-11663. [Medline UI: 80049801]

2. Tulsiani, D.R.P., Hubbard, S.C., Robbins, P.W. and Touster, O. α-D-Mannosidases of rat liver Golgi membranes. Mannosidase II is the $GlcNAcMAN_5$-cleaving enzyme in glycoprotein biosynthesis and mannosidases Ia and IB are the enzymes converting Man_9 precursors to Man_5 intermediates. *J. Biol. Chem.* 257 (1982) 3660-3668. [Medline UI: 82142537]

[EC 3.2.1.113 created 1986]

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